

Electronic supplementary information (ESI) Data Table 2: Representative analytical results for Pb isotope ratios obtained by using 200FsLA-MFC-ICPMS with 10 ¹³ Q resistor Faraday amplifiers																					
RUN	LA settings	LA repetition (Hz)	Sample ID#	Pb conc. (ppm)	²⁰⁸ Pb (V)	²⁰⁸ Pb/ ²⁰⁶ Pb (ratio)	²⁰⁷ Pb/ ²⁰⁶ Pb (ratio)	Damping factor corrected	²⁰⁷ Pb/ ²⁰⁶ Pb (ratio)	Damping factor corrected	2SE%	²⁰⁸ Pb/ ²⁰⁶ Pb (ratio)	2SE%	²⁰⁷ Pb/ ²⁰⁶ Pb (ratio)	2SE%	²⁰⁸ Pb/ ²⁰⁶ Pb (ratio)	2SE%	²⁰⁷ Pb/ ²⁰⁶ Pb (ratio)	2SE%		
												Bracketing corrected		Bracketing corrected		Bracketing corrected		Bracketing corrected			
	Date	5-Aug-2015																			
Run37	200nm/30um/27S	25	NIST612_31	38.00	0.0591	2.1965	0.9161	-	-	-	-	-	-	-	-	2.0539	0.0101	0.49	0.8338	0.0038	0.45
Run38	200nm/30um/27S	25	BHVO-2G-7	1.79	0.0028	2.0842	0.8419	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run39	200nm/30um/27S	25	NIST612_32	38.00	0.0587	2.1963	0.9165	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run40	200nm/30um/27S	25	BHVO-2G-8	1.81	0.0028	2.0771	0.8370	-	-	-	-	-	-	-	-	2.0478	0.0082	0.40	0.8289	0.0030	0.36
Run41	200nm/30um/27S	25	NIST612_33	38.00	0.0587	2.1945	0.9162	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run42	200nm/30um/27S	25	BHVO-2G-9	1.82	0.0028	2.0795	0.8446	-	-	-	-	-	-	-	-	2.0496	0.0106	0.52	0.8364	0.0030	0.36
Run43	200nm/30um/27S	25	NIST612_34	38.00	0.0583	2.1977	0.9163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run44	200nm/30um/27S	25	BHVO-2G-10	1.85	0.0028	2.0743	0.8391	-	-	-	-	-	-	-	-	2.0435	0.0070	0.34	0.8308	0.0027	0.33
Run45	200nm/30um/27S	25	NIST612_35	38.00	0.0585	2.1965	0.9166	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run46	200nm/30um/27S	25	BHVO-2G-11	1.87	0.0029	2.0834	0.8424	-	-	-	-	-	-	-	-	2.0526	0.0076	0.37	0.8339	0.0028	0.34
Run47	200nm/30um/27S	25	NIST612_36	38.00	0.0590	2.1974	0.9168	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Average / 2SD	1.83	0.03							Average / 2SD / 2SD%		2.0495	0.0082	0.40	0.8328	0.0059	0.71		
Run47	200nm/30um/27S	25	NIST612_36	38.00	0.0590	2.1974	0.9168	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run48	200nm/30um/27S	25	BCR-2G-1	11.68	0.0181	2.0917	0.8412	-	-	-	-	-	-	-	-	2.0604	0.0075	0.37	0.8329	0.0013	0.16
Run49	200nm/30um/27S	25	NIST612_37	38.00	0.0596	2.1973	0.9162	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run50	200nm/30um/27S	25	BCR-2G-2	11.61	0.0182	2.0966	0.8408	-	-	-	-	-	-	-	-	2.0654	0.0059	0.28	0.8326	0.0014	0.17
Run51	200nm/30um/27S	25	NIST612_38	38.00	0.0596	2.1970	0.9167	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run52	200nm/30um/27S	25	BCR-2G-3	11.78	0.0185	2.0956	0.8408	-	-	-	-	-	-	-	-	2.0645	0.0064	0.31	0.8324	0.0013	0.15
Run53	200nm/30um/27S	25	NIST612_39	38.00	0.0602	2.1973	0.9166	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run54	200nm/30um/27S	25	BCR-2G-4	11.60	0.0184	2.0928	0.8398	-	-	-	-	-	-	-	-	2.0618	0.0070	0.34	0.8315	0.0015	0.18
Run55	200nm/30um/27S	25	NIST612_40	38.00	0.0600	2.1968	0.9166	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Run56	200nm/30um/27S	25	BCR-2G-5	11.69	0.0184	2.0966	0.8416	-	-	-	-	-	-	-	-	2.0637	0.0067	0.33	0.8329	0.0012	0.15
Run57	200nm/30um/27S	25	NIST612_41	38.00	0.0603	2.2011	0.9174	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Average / 2SD	11.67	0.07							Average / 2SD / 2SD%		2.0632	0.0041	0.20	0.8324	0.0012	0.14		
	Date	7-Aug-2015																			
Run1	200nm/30um/27S	25	NIST612_1	38.00	0.0537	2.1852	0.9123	2.1832	0.0027	0.12	0.9120	0.0011	0.13								
Run2	200nm/30um/27S	25	BHVO-2G-1	1.82	0.0026	2.0673	0.8392	2.0607	0.0107	0.52	0.8381	0.0038	0.45	2.0424	0.0107	0.52	0.8336	0.0038	0.46		
Run3	200nm/30um/27S	25	NIST612_2	38.00	0.0538	2.1863	0.9129	2.1846	0.0012	0.06	0.9126	0.0010	0.11								
Run4	200nm/30um/27S	25	BHVO-2G-2	1.84	0.0026	2.0651	0.8368	2.0644	0.0101	0.49	0.8377	0.0044	0.53	2.0459	0.0101	0.49	0.8328	0.0044	0.53		
Run5	200nm/30um/27S	25	NIST612_3	38.00	0.0540	2.1866	0.9137	2.1835	0.0042	0.19	0.9130	0.0012	0.13								
Run6	200nm/30um/27S	25	BHVO-2G-3	1.87	0.0027	2.0622	0.8362	2.0634	0.0098	0.48	0.8372	0.0044	0.53	2.0454	0.0098	0.48	0.8321	0.0044	0.53		
Run7	200nm/30um/27S	25	NIST612_4	38.00	0.0544	2.1899	0.9135	2.1835	0.0040	0.18	0.9129	0.0012	0.13								
Run8	200nm/30um/27S	25	BHVO-2G-4	1.88	0.0027	2.0687	0.8374	2.0642	0.0136	0.66	0.8367	0.0040	0.48	2.0456	0.0136	0.66	0.8316	0.0040	0.49		
Run9	200nm/30um/27S	25	NIST612_5	38.00	0.0549	2.1875	0.9130	2.1849	0.0025	0.11	0.9130	0.0010	0.11								
Run10	200nm/30um/27S	25	BHVO-2G-5	1.91	0.0028	2.0712	0.8400	2.0708	0.0096	0.46	0.8407	0.0041	0.49	2.0528	0.0096	0.47	0.8359	0.0041	0.50		
Run11	200nm/30um/27S	25	NIST612_6	38.00	0.0556	2.1881	0.9132	2.1820	0.0051	0.23	0.9122	0.0013	0.14								
			Average / 2SD	1.86	0.03									2.0464	0.0077	0.37	0.8332	0.0034	0.41		
Run12	200nm/30um/27S	10	NIST612_7	38.00	0.0230	2.1808	0.9121	2.1807	0.0053	0.24	0.9117	0.0012	0.13								
Run13	200nm/30um/27S	10	BHVO-2G-6	1.97	0.0012	2.0579	0.8306	2.0534	0.0189	0.92	0.8323	0.0093	1.12	2.0365	0.0189	0.93	0.8282	0.0093	1.12		
Run14	200nm/30um/27S	10	NIST612_8	38.00	0.0230	2.1851	0.9123	2.1844	0.0021	0.10	0.9122	0.0011	0.12								
Run15	200nm/30um/27S	10	BHVO-2G-7	1.97	0.0012	2.0506	0.8391	2.0553	0.0229	1.11	0.8374	0.0091	1.09	2.0367	0.0229	1.12	0.8334	0.0091	1.09		
Run16	200nm/30um/27S	10	NIST612_9	38.00	0.0231	2.1828	0.9115	2.1841	0.0022	0.10	0.9115	0.0011	0.12								
Run17	200nm/30um/27S	10	BHVO-2G-8	1.97	0.0012	2.0928	0.8525	2.0910	0.0272	1.30	0.8548	0.0100	1.17	2.0722	0.0272	1.31	0.8507	0.0100	1.18		
Run18	200nm/30um/27S	10	NIST612_10	38.00	0.0232	2.1852	0.9128	2.1842	0.0038	0.18	0.9122	0.0013	0.14								
Run19	200nm/30um/27S	10	BHVO-2G-9	1.95	0.0012	2.0561	0.8273	2.0533	0.0221	1.07	0.8235	0.0089	1.08	2.0348	0.0221	1.08	0.8189	0.0089	1.09		
Run20	200nm/30um/27S	10	NIST612_11	38.00	0.0233	2.1836	0.9125	2.1842	0.0040	0.18	0.9128	0.0013	0.14								
Run21	200nm/30um/27S	10	BHVO-2G-10	1.96	0.0012	2.0689	0.8262	2.0629	0.0179	0.87	0.8280	0.0083	1.01	2.0436	0.0179	0.88	0.8232	0.0083	1.01		
Run22	200nm/30um/27S	10	NIST612_12	38.00	0.0235	2.1831	0.9124	2.1855	0.0043	0.20	0.9127	0.0012	0.13								
			Average / 2SD	1.96	0.01									2.0448	0.0314	1.54	0.8309	0.0246	2.97		
Run23	200nm/30um/27S	25	NIST612_13	38.00	0.0616	2.1907	0.9136	2.1848	0.0033	0.15	0.9130	0.0010	0.11								
Run24	200nm/30um/27S	25	BCR-2G-1	11.73	0.0190	2.0820	0.8369	2.0777	0.0051	0.25	0.8365	0.0011	0.13	2.0582	0.0051	0.25	0.8313	0.0011	0.13		
Run25	200nm/30um/27S	25	NIST612_14	38.00	0.0606	2.1884	0.9137	2.1851	0.0025	0.11	0.9133	0.0009	0.09								
Run26	200nm/30um/27S	25	BCR-2G-2	11.96	0.0191	2.0817	0.8355	2.0763	0.0058	0.28	0.8354	0.0014	0.17	2.0575	0.0058	0.28	0.8303	0.0014	0.17		
Run27	200nm/30um/27S	25	NIST612_15	38.00	0.0595	2.1880	0.9131	2.1833	0.0046	0.21	0.9128	0.0014	0.15								
Run28	200nm/30um/27S	25	BCR-2G-3	11.99	0.0188	2.0869	0.8378	2.0813	0.0049	0.23	0.8375	0.0013	0.16	2.0628	0.0049	0.24	0.8324	0.0013	0.16		
Run29	200nm/30um/27S	25	NIST612_16	38.00	0.0597	2.1882	0.9131	2.1845	0.0033	0.15	0.9131	0.0011	0.12								
Run30	200nm/30um/27S	25	BCR-2G-4	11.85	0.0186	2.0843	0.8375	2.0822	0.0024	0.12	0.8375	0.0013	0.16	2.0639	0.0024	0.12	0.8326	0.0013	0.16		
Run31	200nm/30um/27S	25	NIST612_17	38.00	0.0598	2.1873	0.9131	2.1830	0.0052	0.24	0.9127	0.0011	0.12								
Run32	200nm/30um/27S	25	BCR-2G-5	11.77	0.0185	2.0864	0.8385	2.0829	0.0051	0.24	0.8381	0.0015	0.18	2.0650	0.0051	0.25	0.8333	0.0015	0.18		
Run33	200nm/30um/27S	25	NIST612_18	38.00	0.0595	2.1893	0.9133	2.1837	0.0034	0.16	0.9128	0.0009	0.10								
			Average / 2SD	11.86	0.11									2.0615	0.0068	0.33	0.8320	0.0023	0.28		
Run34	200nm/30um/27S	10	NIST612_19	38.00	0.0240	2.1814	0.9119	2.1830	0.0055	0.25	0.9119	0.0012	0.13								